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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,890	03/17/2004	John K. Junkers	2839	4635
7590	06/07/2006		EXAMINER	
STRIKER, STRIKER & STENBY				MITCHELL, KATHERINE W
103 East Neck Road Huntington				
Huntington, NY 11743				
				ART UNIT
				PAPER NUMBER
				3677

DATE MAILED: 06/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/802,890	JUNKERS, JOHN K.
	Examiner	Art Unit
	Katherine W. Mitchell	3677

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 23 March 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>9/2005 & 8/2005</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Formal Matters

1. Applicant's statement explaining the legibility of the previously filed amendment is noted, and the USPTO apologizes for the error during scanning. Examiner has verified that there was no charge to applicant due to the need for resubmission due to the USPTO error.

Double Patenting

2. A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) has been filed and accepted to overcome the rejections based on a nonstatutory double patenting

Claim Clarifications

3. It is not clear if applicant is invoking 35 USC 112 paragraph 6. Examiner notes from Chapter 2100 of the current MPEP, section 2181:

A claim limitation will be interpreted to invoke 35 U.S.C. 112, sixth paragraph if it meets the following 3-prong analysis:

- (A) *the claim limitations must use the phrase "means for " or "step for ";*
- (B) *the "means for " or "step for " must be modified by functional language; and*
- (C) *the phrase "means for " or "step for " must not be modified by sufficient structure, material or acts for achieving the specified function.*

With respect to the first prong of this analysis, a claim element that does not include the phrase "means for" or "step for" will not be considered to invoke 35 U.S.C. 112, sixth paragraph. If an applicant wishes to have the claim limitation treated under 35 U.S.C. 112, sixth paragraph, applicant must either: (A) amend the claim to include the phrase "means for" or "step for" in accordance with these guidelines; or (B) show that even though the phrase "means for" or "step for" is not used, the claim limitation is written as a function to be performed and does not recite sufficient structure, material, or acts which would preclude application of 35 U.S.C. 112 , sixth paragraph.

Applicant has not used the required phrasing "means for" so examiner is considering the claims to include any structure capable of performing the function. If applicant intends to invoke 112 6th, the wording must comply with the requirements above. IF that were the case, examiner notes that the means would be limited to roughened surfaces or friction increasing coatings.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1--18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grube USP 3728933 in view of Hlinsky USP 4362449.

Grube teaches a washer with a body having an axis and first and second axial outer facial surfaces. Further, the washer has an additional turning resistant surface adapted to cooperate with a bolt, said additional turning resistant surface providing friction between the body and bolt to impede the bolt from turning and allowing the bolt to be axially displaced when the nut is turned (abstract Figs 4-7, col 3 line 59 - col 5 line 58). Grube Figs 4-7 teach the assembly of a washer in combination with the bolt.

PATENTED APR 24 1973

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SHEET 1 OF 2

FIG. 1

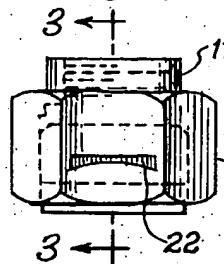


FIG. 2

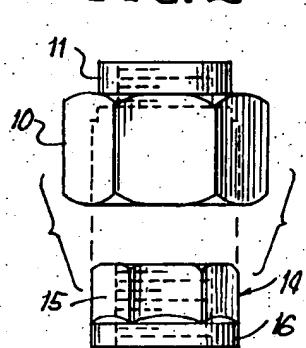


FIG. 3

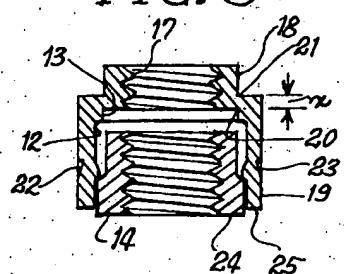


FIG. 4

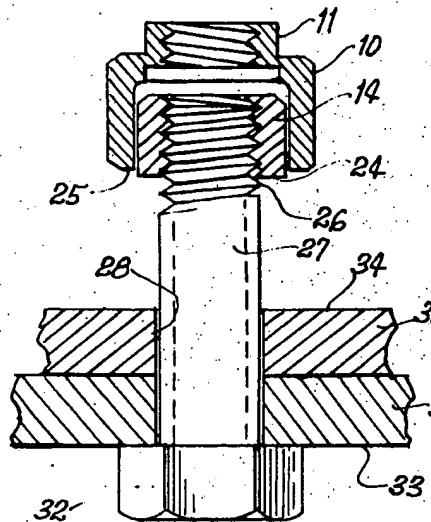


FIG. 5

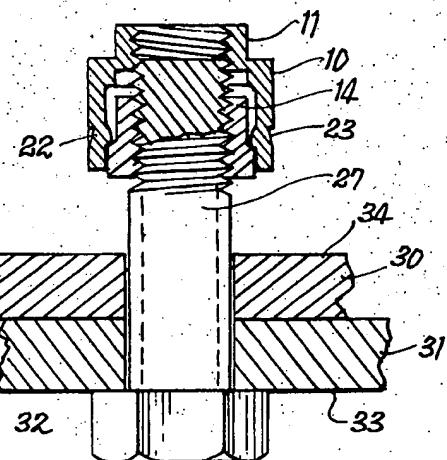


FIG. 6

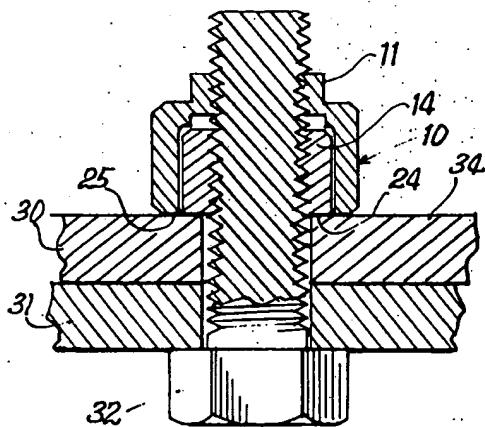
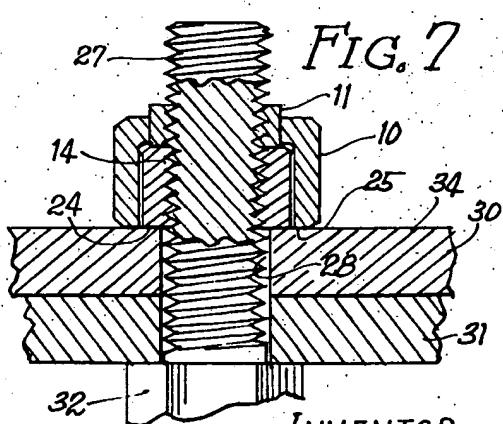


FIG. 7



INVENTOR
William L. Grube
by Davis, Lucas, Brewer,
and Brughman, Attys

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Regarding whether the washer is one or multiple elements, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have made the washer in one or multiple parts, since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art. *Howard v. Detroit Stove Works*, 150 U.S. 164 (1893).

Fig 4-7 show the turning resistant surface connectable with a bolt thread.

Fig. 4-7 show the body movable in the axial direction, and with one portion provided with said additional turning resistant surface and another portion frictionally connected to said one portion and provided with said second face surface which is adapted to frictionally cooperate with the object (at 24/25).

A breaking point is shown in Figs 6-7, which when broken when the bolt is turned, elongates the bolt in the axial direction.

However, Grube does not teach that the first washer face surface, adapted to cooperate with the nut, has a smaller frictional characteristic than the second washer face surface, adapted to cooperate with the object to be assembled.

First, examiner notes that claims 1-8 do not include the bolt or nut, and the washer stands alone, and thus either face can be considered the first or second face of the washer and either part 11, part 14, or the combination can be considered the washer. It is possible to add another lock nut onto the protruding shaft end 27, which is all the claims require.

Hlinsky teaches in Fig 8 and col 7 lines 30-46 that a washer can have different frictional characteristics on different facial surfaces, and can be used to thus prevent the washer from turning when the fastener body is being tightened.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Grube and Hlinsky before him at the time the invention was made, to modify Grube as taught by Hlinsky to include different frictional properties of the washer facial surfaces of Hlinsky, in order to obtain better gripping between the washer and the object/substrate, and lower gripping between the washer and the nut, so that easier and more effective bolt/nut tightening and bolt elongation will occur. One would have been motivated to make such a combination because better connections with less work will be obtained.

Response to Arguments

6. Applicant's arguments filed 3//23/2006 have been fully considered but they are not persuasive.

Examiner agrees that neither Grube nor Hlinsky teaches the claimed invention singly, but the combination of the two make obvious those structural and ability to perform functionality limitations claimed.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., that the bolt DOES NOT TURN) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057

(Fed. Cir. 1993). The claims require only an increased resistance to turning. The additional friction of any threaded engagement will inevitably increase the resistance to turning. Unfortunately, “larger” and “smaller” frictional characteristics must be interpreted very broadly, since they are relative terms.

Examiner does not see any structure in the claims that reads over structure in the references, and thus must assume that in order for applicant's invention to be enabled, the structures perform similarly. However, examiner does note that applicant's specification discloses that a specific power tool usable with the invention is disclosed. If there is some novel interacting structure with the tool and fastener/washer, this could possibly be incorporated to result in allowable subject matter. Also, details of the resistive point structure should be considered. Applicant is invited to discuss options with examiner.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine W. Mitchell whose telephone number is 571-272-7069. The examiner can normally be reached on Mon - Thurs 10 AM - 8 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on 571-272-7075. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Katherine W Mitchell
Primary Examiner
Art Unit 3677

Kwm
5/26/2006

